

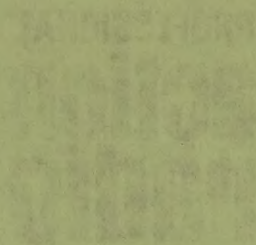
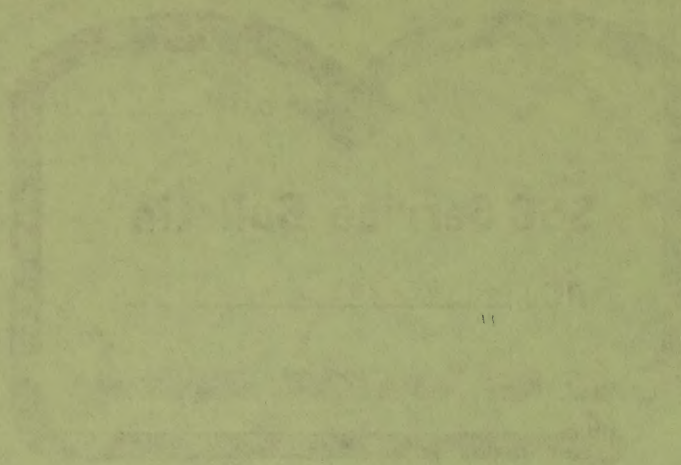
TO: ALL REGENCY COMMUNICATIONS PROFESSIONAL SALES & SERVICE CENTERS  
ALL REGENCY COMMUNICATIONS PROFESSIONAL SALES REPRESENTATIVES

MODEL AFFECTED: MCPHA SERVICE MANUAL ERRATA

Replace the Table of Contents page and add the following  
new sections to your MCPHA Service Manual. (Pages attached)

Section 2-7	Antenna - MA-183
Section 11	Parts List Rev. "C"
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Section 13	Schematic Rev. "C"

TECHNICAL SERVICE DEPARTMENT  
REGENCY COMMUNICATIONS, INC.



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## 2-7 ANTENNA - MA-183

When ordering, use the suffix letter to specified operating frequency. Example: For a radio crystallized to the frequency of 151.625, you would order an MA-183D.

<u>PART NO.</u>	<u>RESONANT FREQUENCY ON (MCP-H)</u>
MA-183AB	134 MHz
MA-183AC	136 MHz
MA-183AD	138 MHz
MA-183AE	140 MHz
MA-183A	143 MHz
MA-183B	146 MHz
MA-183C	148 MHz
MA-183D	151 MHz
MA-183E	153 MHz
MA-183F	156 MHz
MA-183G	159 MHz
MA-183H	161 MHz
MA-183I	164 MHz
MA-183J	166 MHz
MA-183K	168 MHz
MA-183L	170 MHz
MA-183M	172 MHz

FIGURE 2-1.



## SECTION 11 - PARTS LIST REV. "C"

<u>LOCATION</u>	<u>DESCRIPTION</u>	<u>PART NUMBER</u>
<u>RESISTORS</u> (All resistors to be 1/4W 5% carbon film unless otherwise stated)		
R1	22K	4704-0223-032
R2	47K	4704-0473-032
R3	220 ohm 1/4W 5% carbon comp	4701-0221-032
R4	22 ohm 1/8W 10% carbon comp	4701-0220-041
R5	3.3K 1/4 W 5% carbon comp	4701-0332-032
R6	18K 1/4W 5% carbon comp	4701-0183-032
R7	33K	4704-0333-032
R8	1.5K 1/8W 10%	4704-0152-041
R9	220K 1/8W 10%	4704-0224-041
R10	10K 1/8W 10%	4704-0103-041
R11	10K 1/8W 10%	4704-0103-041
R12	220K 1/8W 10%	4704-0224-041
R13	33K	4704-0333-032
R14	2.2K	4704-0222-032
R15	10K	4704-0103-032
R16	2.2K 1/8W 10%	4704-0222-041
R17	2.2K 1/8W 10%	4704-0222-041
R18	47K	4704-0473-032
R19	47K 1/4W 5% carbon comp	4701-0473-032
R20	1K	4704-0102-032
R21	10K	4704-0103-032
R22	1K	4704-0102-032
R23	not used	
R24	not used	
R25	not used	
R26	10K	4704-0103-032
R27	22K 5% carbon comp	4701-0223-032
R28	1.5K	4704-0152-032
R29	4.7K	4704-0472-032
R30	33K	4704-0333-032
R31	1K	4704-0102-032
R32	100 ohm	4704-0101-032
R33	22 ohm	4704-0220-032
R34	2.2K	4704-0222-032
R35	22 ohm	4704-0220-032
R36	10K	4704-0103-032
R37	10K	4704-0103-032
R38	1K	4704-0102-032
R39	4.7K	4704-0472-032
R40	10K	4704-0103-032
R41	560 ohm	4704-0561-032
R42	1K	4704-0102-032
R43	100 ohm	4704-0101-032
R44	5.6K	4704-0562-032
R45	33K	4704-0333-032
R46	100 ohm	4704-0101-032
R47	100 ohm	4704-0101-032
R48	100 ohm	4704-0101-032
R49	100 ohm	4704-0101-032
R50	100 ohm	4704-0101-032

<u>LOCATION</u>	<u>DESCRIPTION</u>	<u>PART NUMBER</u>
R51	330 ohm 1/8W 10% carbon comp	4701-0331-041
R52	22 ohm 1/8W 10% carbon comp	4701-0220-041
R53	1K 1/8W 10% carbon comp	4701-0102-041
R54	2.2K 1/8W 10%	4704-0222-041
R55	2.2K	4704-0222-032
R56	1K	4704-0102-032
R57	56K	4704-0563-032
R58	1K	4704-0102-032
R59	56K	4704-0563-032
R60	1.8K	4704-0182-032
R61	5.6K	4704-0562-032
R62	12K	4704-0123-032
R63	5.6K	4704-0562-032
R64	4.7K	4704-0472-032
R65	not used	
R66	100K	4704-0104-032
R67	56 ohm	4704-0560-032
R68	2.2K	4704-0222-032
R69	22 ohm	4704-0220-032
R70	100 ohm 1/4W 5% carbon comp	4701-0101-032
R71	470 ohm 1/4W 5% carbon comp	4701-0471-032
R72	1K	4704-0102-032
R73	470 ohm	4704-0471-032
R74	22 ohm 1/8W 10% carbon comp	4701-0220-041
R75	**22 ohm	4704-0220-032 6W only
R76	**1K	4704-0102-032 6W only
R77	**220 ohm 1/4W 5% carbon comp	4701-0221-032 2.5W
R77	**100 ohm 1/4W 5% carbon comp	4701-0101-032 4W
R77	not used	6W
R78	22 ohm 2W 5% wire wound	4710-0220-031 2.5W & 4W
R79	1.0 meg ohm	4704-0105-032

#### CAPACITORS

C1	15pF Cer. NPO	1567-0150-050
C2	33pF Cer. NPO	1567-0330-050
C3	1pF Cer. NPO	1567-0010-050
C4	7pF C3r. NPO	1567-0070-050
C5	2pF Cer. NPO	1567-0020-050
C6	.001mF Cer. YB	1572-0102-050
C7	.001mF Cer. YB	1572-0102-050
C8	.001mF Cer. YB	1572-0102-050
C9	8pF Cer. NPO	1567-0080-050
C10	.5pF Cer. SL	1566-0057-050
C11	7pF Cer. NPO	1567-0070-050
C12	33pF Cer. NPO	1567-0070-050
C13	.01mF Cer.	1573-0103-050
C14	4.7mF Tant. 16V	1550-0475-016
C15	.01mF Cer.	1573-0103-050
C16	.01mF Cer.	1573-0103-050
C17	.01mF Cer.	1573-0103-050
C18	.001mF Cer. YB	1572-0102-050
C19	1mF Tant. 25V	1550-0105-025
C20	.1mF Tant. 35V	1550-0104-035
C21	22pF Cer. NPO	1567-0220-050
C22	47pF Cer. NPO	1567-0470-050
C23	100pF Cer. N150	1563-0101-050

\*\*Power Sensitive

<u>LOCATION</u>	<u>DESCRIPTION</u>	<u>PART NUMBER</u>
C24	10mF Tant. 16V	1550-0106-016
C25	.022mF Cer.	1573-0223-050
C26	.1mF Tant. 35V	1550-0104-035
C27	.1mF Tant. 35V	1550-0104-035
C28	10pF Cer. NPO	1567-0100-050
C29	470pF Axial SL-1070Y5P	1538-0471-050
C30	470pF Axial SL-1070Y5P	1538-0471-050
C31	.047mF +10% Mylar 50V	1508-0473-050
C32	1mF Tant. 25V	1550-0105-025
C33	.1mF Tant. 35V	1550-0104-035
C34	470pF Cer. YB	1572-0471-050
C35	not used	
C36	1mF Tant. 25V	1550-0105-025
C37	470pF Cer. YB	1572-0471-050
C38	Not used	
C39	1mF Tant. 25V	1550-0105-025
C40	47mF Tant. 16V	1550-0476-016
C41	47mF Tant. 16V	1550-0476-016
C42	47mF Tant. 16V	1550-0476-016
C43	.001mF Cer. YB	1572-0102-050
C44	.001mF Cer. YB	1572-0102-050
C45	200pF Cer. N750	1570-0201-050
C46	56pF Cer. N750	1570-0560-050
C47	39pF V Cer. NPO	1567-0390-050
C48	56pF Cer. N750	1570-0560-050
C49	47pF SL	1566-0470-050
C50	.01mF Cer.	1573-0103-050
C51	1pF Cer. NPO	1567-0010-050
C52	8pF Cer. NPO	1567-0080-050
C53	8pF Cer. NPO	1567-0080-050
C54	10pF Cer. NPO	1567-0100-050
C55	5pF Cer. NPO	1567-0050-050
C56	200pF Cer. N750	1570-0201-050
C57	56pF Cer. N750	1570-0560-050
C58	47pF Cer. NPO	1567-0470-050
C59	82pF Z-05	1504-0820-100
C60	82pF Z-05	1504-0820-100
C61	.01mF Cer.	1573-0103-050
C62	.01mF Cer.	1573-0103-050
C63	47pF Cer. NPO	1567-0470-050
C64	.01mF Cer.	1573-0103-050
C65	.01mF Cer.	1573-0103-050
C66	.01mF Cer.	1573-0103-050
C67	47pF Cer. NPO	1567-0470-050
C68	4pF Cer. NPO	1567-0040-050
C69	39pF Cer. NPO	1567-0390-050
C70	33pF Cer. NPO	1567-0330-050
C71	3pF Cer. NPO	1567-0030-050
C72	27pF Cer. NPO	1567-0270-050
C73	.01mF Cer.	1573-0103-050
C74	.01mF Cer.	1573-0103-050
C75	.001mF Cer. YB	1572-0102-050
C76	.01mF Cer.	1573-0103-050
C77	7pF Cer. NPO	1567-0070-050
C78	1pF Cer. NPO	1567-0010-050
C79	10pF Cer. NPO	1567-0100-050
C80	33pF Cer. NPO	1567-0330-050

LOCATIONDESCRIPTIONPART NUMBER

C81	.001mF Cer. YB	1572-0102-050
C82	4.7mF Tant. 16V	1550-0475-016
C83	22pF Cer. NPO	1567-0220-050
C84	39pF Cer. NPO	1567-0390-050
C85	4.7mF Tant. 16V	1550-0475-016
C86	.001mF Cer. YB	1572-0102-050
C87	39pF Cer. NPO	1567-0390-050
C88	39pF Cer. NPO	1567-0390-050
C89	15pF Cer. NPO	1567-0150-050
C90	470pF Cer. YB	1572-0471-050
C91	.001mF Cer. YB	1572-0102-050
C92	4.7mF Tant. 16V	1550-0475-016
C93	470pF Cer. YB	1572-0471-050
C94	470pF Cer. YB	1572-0471-050
C95	4.7mF Tant. 16V	1550-0475-016
C96	.1mF Tant. 35V	1550-0104-035
C97	470pF Cer. YB	1572-0471-050
C98	4.7mF Tant. 16V	1550-0475-016
C99	.15mF Tant. 35V	1550-0154-035
C100	4.7mF Tant. 16V	1550-0475-016
C101	47pF SL	1566-0470-050
C102	.001mF Cer. YB	1572-0102-050
C103	.15mF Tant. 35V	1550-0154-035
C104	4.7mF Tant. 16V	1550-0475-016
C105	47mF Tant. 16V	1550-0476-016
C106	.001mF Cer. YB	1572-0102-050
C107	.001mF Cer. YB	1572-0102-050
C108	.01mF Cer	1573-0103-050
C109	*.001mF Cer.	1572-0102-052
C110	*.001mF Cer.	1572-0102-052
C111	*47pF Cer. NPO	1567-0470-050
C112	*47pF Cer. NPO	1567-0470-050
C113	*47pF Cer. NPO	1567-0470-050
C114	*47pF Cer. NPO	1567-0470-050
C115	*47pF Cer. NPO	1567-0470-050
C116	*47pF Cer. NPO	1567-0470-050
C117	*33pF Cer. NPO	1567-0330-050
C118	*33pF Cer. NPO	1567-0330-050
C119	*33pF Cer. NPO	1567-0330-050
C120	*33pF Cer. NPO	1567-0330-050
C121	*33pF Cer. NPO	1567-0330-050
C122	*33pF Cer. NPO	1567-0330-050
C123	10pF Cer. N470	1569-0100-050
C124	15pF Cer. NPO	1567-0150-050
C125	.001mF Cer. YB	1572-0102-050
C126	not used	
C127	4.7mF Tant. 16V	1572-0475-016
C128	470pF CER YB	1572-0471-050
TC1	*20pF Trimmer	1517-0200-050
TC2	*20pF Trimmer	1517-0200-050
TC3	*20pF Trimmer	1517-0200-050
TC4	*20pF Trimmer	1517-0200-050
TC5	*20pF Trimmer	1517-0200-050
TC6	*20pF Trimmer	1517-0200-050
TC7	*20pF Trimmer	1517-0200-050
TC8	*20pF Trimmer	1517-0200-050

\*Channel Sensitive

6W only  
6W only

LOCATIONDESCRIPTIONPART NUMBER

TC9	20pF Trimmer	1517-0200-050
TC10	*20pF Trimmer	1517-0200-050
TC11	*20pF Trimmer	1517-0200-050
TC12	*20pF Trimmer	1517-0200-050
TC13	20pF Trimmer	1517-0200-050
TC14	20pF Trimmer	1517-0200-050

TRANSISTORS

Q1	MOS FET 3N201	4804-0870-890
Q2	2N5668	4804-0870-700
Q3	Blue Top SPS1476	4801-0000-003
Q4	Blue Top SPS1476	4801-0000-003
Q5	Blue Top SPS1476	4801-0000-003
Q6	Black Top SPS952-2	4801-0000-016
Q7	Black Top SPS952-2	4801-0000-016
Q8	White Top SPS1539	4801-0000-060
Q9	Blue Top SPS1476	4801-0000-003
Q10	Black Top SPS952-2	4801-0000-016
Q11	Blue Top SPS1476	4801-0000-003
Q12	Blue Top SPS1476	4801-0000-003
Q13	Blue Top SPS1476	4801-0000-003
Q14	**MPS3866A	4801-0800-125 2.5W & 4W
Q14	**MRF515	4803-0871-400 6W
Q15	SRF2442K 2N5945	4801-0873-000
Q16	Black Top SPS952-2	4801-0000-016
Q17	Black Top SPS952-2	4801-0000-016
Q18	Black Top SPS952-2	4801-0000-016
Q19	Orange MPS-A55	4801-0000-001
Q20	**MPS-A14	4801-0871-420 6W only

INTEGRATED  
CIRCUITS

IC1	MC-3357P-1	3130-0860-000
IC2	LM-386N-1	3130-0860-020

THERMISTORS

TH1	500 ohm thermistor 10% Y Curve	5300-0805-150
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DIODES

D1	IN4148 DO-35	4805-1241-200
D2	IN757A DO-35 9V Zener	4808-0000-029
D3	IN4148 DO-35	4805-1241-200
D4	BA-284 Pin	4805-0851-060
D5	IN4002 DO-41	4806-0000-004
D6	IN4148-DO-35	4805-1241-200
D7	IN4148 DO-35	4805-1241-200
D8	IN753A DO-35 6.2V Zener	4808-0000-025
D9	IN753A DO-35 6.2V Zener	4808-0000-025
D10	MV-5075B Light Emitting	4810-0851-460
D11	**IN745A DO-35	4808-0000-042 6W only
D12	IN4002 DO-41	4806-0000-004
D13	**IN4002 DO-41	4806-0000-004 2.5W & 4W
**Power Sensitive		

<u>LOCATION</u>	<u>DESCRIPTION</u>	<u>PART NUMBER</u>	
<u>COILS</u>			
L1	L2659A Airwound	1801-0826-595	
L2	L2658 Airwound	1801-0826-580	
L3	L2656 RFC	1806-0826-560	
L4	L2680 100K 1/4W RFC	1803-0826-800	
L5	**L2677 Airwound	1801-0826-770	2.5W & 4W
L5	**L2679 Airwound	1801-0826-790	6W
L6	L2679 Airwound	1801-0826-790	
L7	L2678 Airwound	1801-0826-780	
L8	L2679 Airwound	1801-0826-790	
L9	22mH Choke	1802-0223-010	
L10	L2659 Airwound	1801-0826-590	

#### TRANSFORMERS

T1	L2666 Transformer	5601-0826-660
T2	L2666 Transformer	5601-0826-660
T3	L2666 Transformer	5601-0826-660
T4	L2666 Transformer	5601-0826-660
T5	L2673A Transformer	1801-0826-735
T6	L2673 Transformer	5601-0826-730
T7	L2673 Transformer	5601-0826-730
T8	L2657 Transformer	5601-0826-570
T9	L2661 Transformer	5601-0826-610
T10	L2674 Transformer	5601-0826-740
T11	L2675 Transformer	5601-0826-750
T12	L2662 Transformer	5601-0826-620
T13	L2663 Transformer	5601-0826-630
T14	L2664 Transformer	5601-0826-640
T15	L2665 Transformer	5601-0826-650
T16	L2666 Transformer	5601-0826-660
T17	L2667 Transformer	5601-0826-670

#### POTENTIOMETERS

VR1/S3	20K W/Switch	4705-0857-760	
VR2	5K W/Switch	4750-0857-720	
VR3	50K Trimmer	4751-0503-100	
VR4	**10K Trimmer	4751-0103-100	6W only

#### SWITCHES

S1	*Rotary 6 Pos. 2 Pole	5111-0867-440
S2	Micro AH2504 3A, 250V (PTT)	5116-0867-600
S3	On/Off Volume Control	P/O VR1
S4	Toggle SPST TT11DG	5114-0867-820

\*Channel Sensitive

\*\*Power Sensitive

<u>LOCATION</u>	<u>DESCRIPTION</u>	<u>PART NUMBER</u>
<u>FILTERS</u>		
CFL1	ceramic filter CFM-455F	2700-0853-000
Y13	10.245 MHz crystal	2327-0810-245
YFL1	10.7 MHz monofilter	2705-0852-600

BOTTOM CASE

QUANTITY

1	Bottom case assembly	7011-1881-900
1	Case bottom	1411-1810-362
4	Washer aluminum (use 1 on each side of rivet)	2840-0872-650
2	Rivet oval (charger contacts)	2883-1810-346
	Tubing 1/16" black shrink	3102-0871-920
1	Diode SIL IN4002 (D-12)	4806-0000-004
2	Ring terminal connectors (1 under each rivet)	2105-0861-100

REAR CASE

1	Rear case assembly	7011-1882-100
1	Back case, black	1411-1810-357
1	Battery compartment cover, black	1411-1810-358
1	Tongue latch	1420-3810-332
1	Latch head	1420-5810-320
1	Steel washer (under latch head)	2840-0872-500
	Rubber tape 9/16"	1601-0688-360
1	Leaf spring, right	2513-3810-344
1	Leaf spring, left	2513-3810-345
4	Brass eyelet rivet 121 x .156	2883-0863-840
1	Pin receptacle connector	2105-0861-110
1	Fast-on connector	2105-0861-120

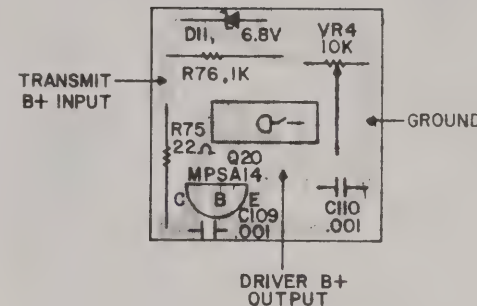
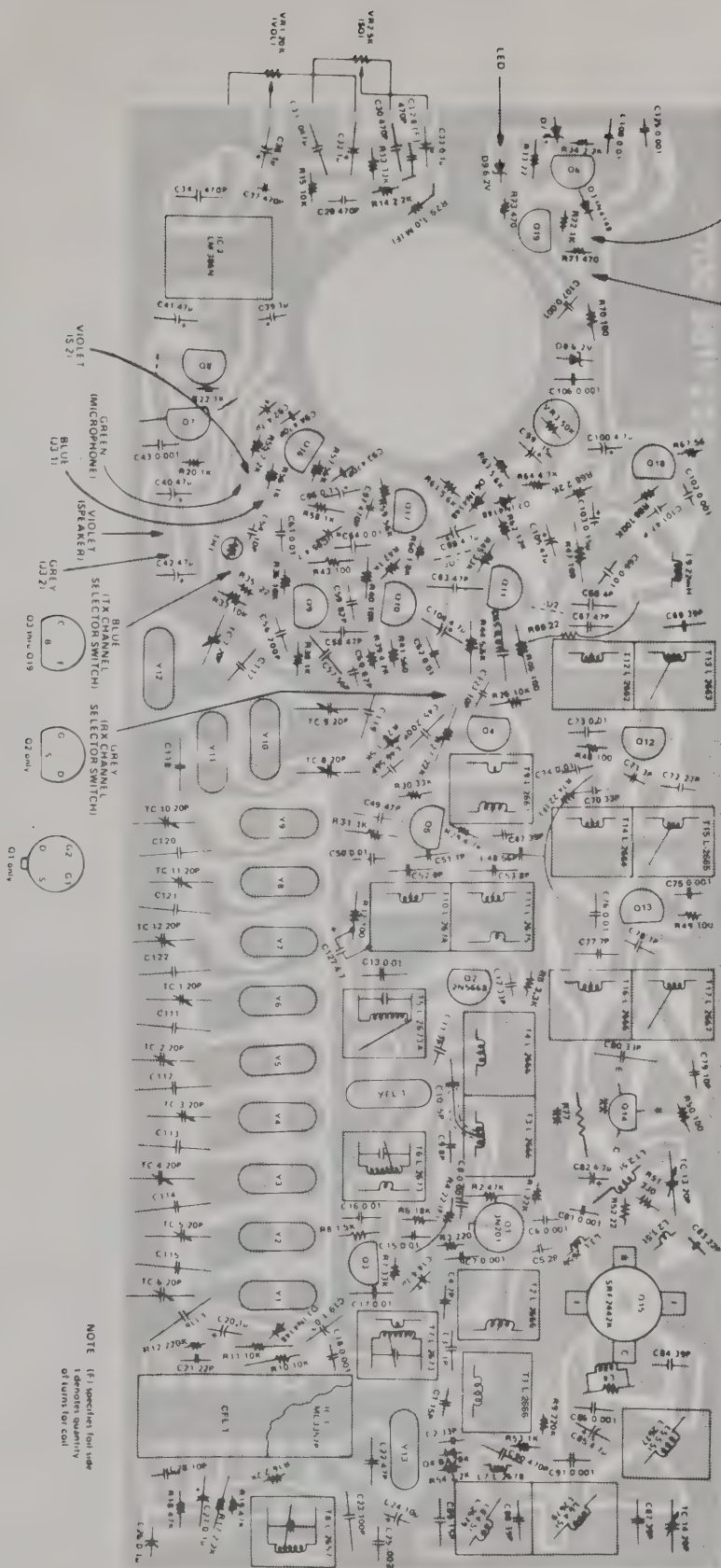
FRONT CASE

1	Front case assembly	7011-1883-200
1	Front case, black	1411-1810-356
1	PTT lever	1411-1810-359
1	8 ohm speaker	1301-0866-560
1	Microphone	1310-0855-840
1	Grille cloth	1406-1810-341
1	Coil spring PTT lever	2513-3810-343

SHIELDS/HEATSINK

1	455KC filter shield	2508-3810-611
3	7MM shield can for L5,L6,L8	2508-0829-000
1	Heatsink straight VHF	5400-1811-205
1	Heatsink U-shaped VHF	5400-1811-206

<u>QUANTITY</u>	<u>DESCRIPTION</u>	<u>PART NUMBER</u>	
<u>CONNECTORS/ JACKS</u>			
1	6-Pin connector female (Ext. spk/mic.)	2105-0846-880	
1	UG-625B/U BNC Female (antenna)	2105-0846-600	
1	FM amp connector (battery wire +)	2105-0860-903	
1	Connect pin (battery wire -)	2105-0860-003	
1	6-Pin connector male (on Ext. spk/mic)	2105-0846-960	
<u>MISCELLANEOUS</u>			
1	Faceplate 1 channel	2403-5810-392	
1	Faceplate 6 channel	2403-5810-390	
1	*FCC label MCPH606A	2507-3409-412	
1	*FCC label MCPH601A	2507-3409-413	
1	*FCC label MCPH406A	2507-3409-414	
1	*FCC label MCPH401A	2507-3409-415	
1	*FCC label MCPH256A	2507-3409-416	
1	*FCC label MCPH251A	2507-3409-417	
1	Inlay logo "Regency"	2509-3284-000	
1	Cap plastic, black	2520-0856-680	
1	Bracket sub panel mounting	1400-5810-312	
1	Sub panel (top)	1405-5810-389	
1	*Channel knob	2402-0854-440	
2	Volume, squelch knobs	2402-0854-640	
1	**P.C. Board for Hi/Lo	1700-3811-203	6W only
1	Solder lug (PTT switch)	2102-0866-080	
2	Screw 2-56 x 7/16 (PTT switch)	2801-0716-006	
4	Hex nut 2-56 x 3/16 (PTT switch) (top plate to P.C. Board)	2850-0256-001	
1	Solder lug (behind Ant. conn)	2102-0853-600	
2	Screw 2-56 x 1/4 (top plate to P.C. Board)	2801-0104-006	
2	Lock washer #2 (top plate to P.C. Board)	2843-0000-002	
1	Washer brass .25 x 40 x .02 (behind channel switch)	2840-0872-480	
1	Hex nut 8-32 x 1/8 (holds final)	2850-3832-001	
2	screw 2-56 x 1/4 flat head (inside battery compartment)	2801-0104-013	
4	Screw 4-40 x 1/4 pan head (top case)	2803-0104-010	
4	Screw 4-40 x 1/4 flat head (bottom case)	2803-0104-013	
	Teflon tubing Clear 24GA	3101-0000-013	
	Teflon tubing Clear 22GA	3101-0000-018	
	Heatshrink tubing 1/16, black	3102-0871-920	
	3-cond ribbon cable	6008-0103-003	
	2-cond cable w/shield	6007-0800-100	
	coax cable RG-178B/U	6042-0800-240	
*Channel Sensitive			
**Power Sensitive			

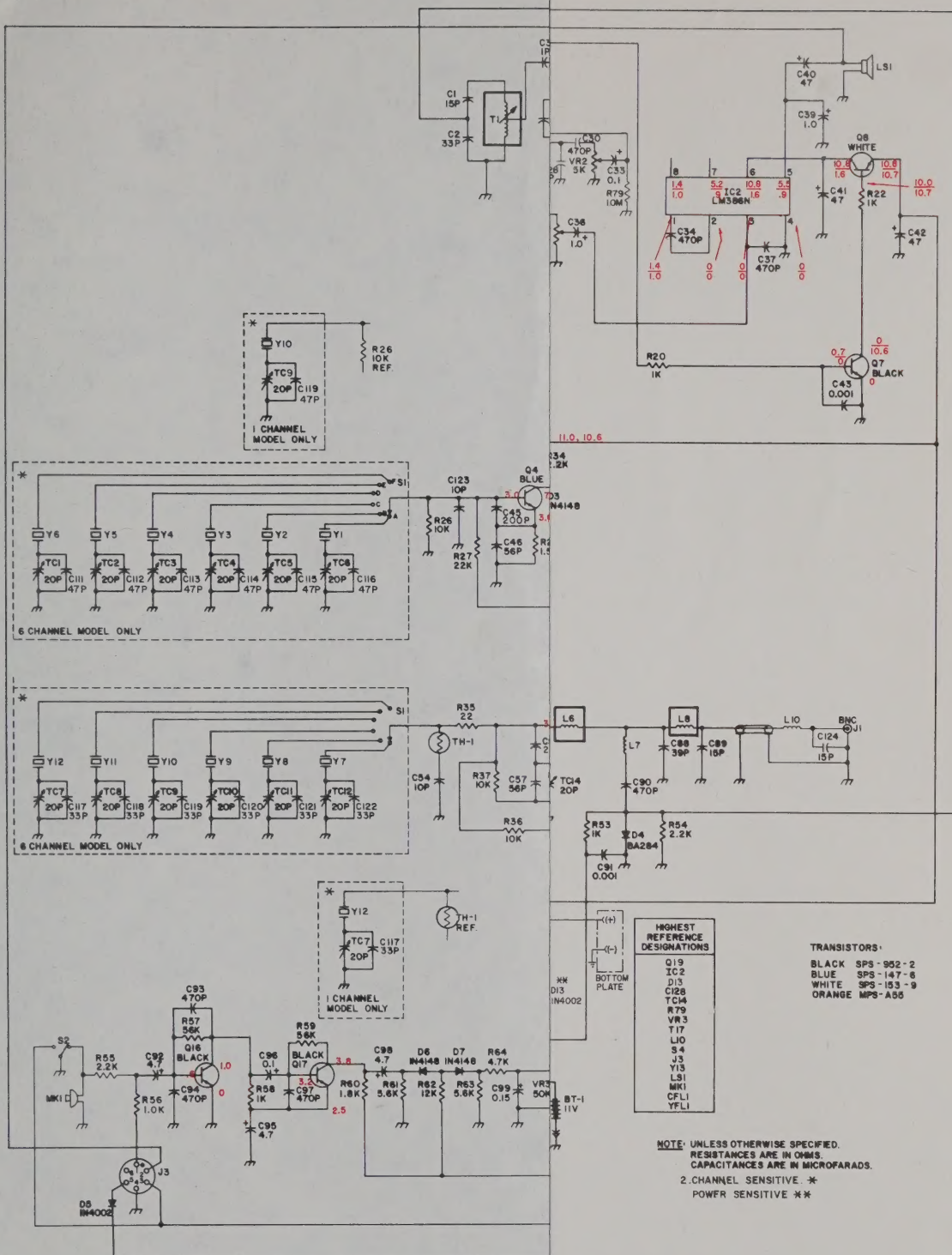


\*\*6W POWER OUTPUT REGULATOR

\*\*POWER SENSITIVE

# PARTS OVERLAY

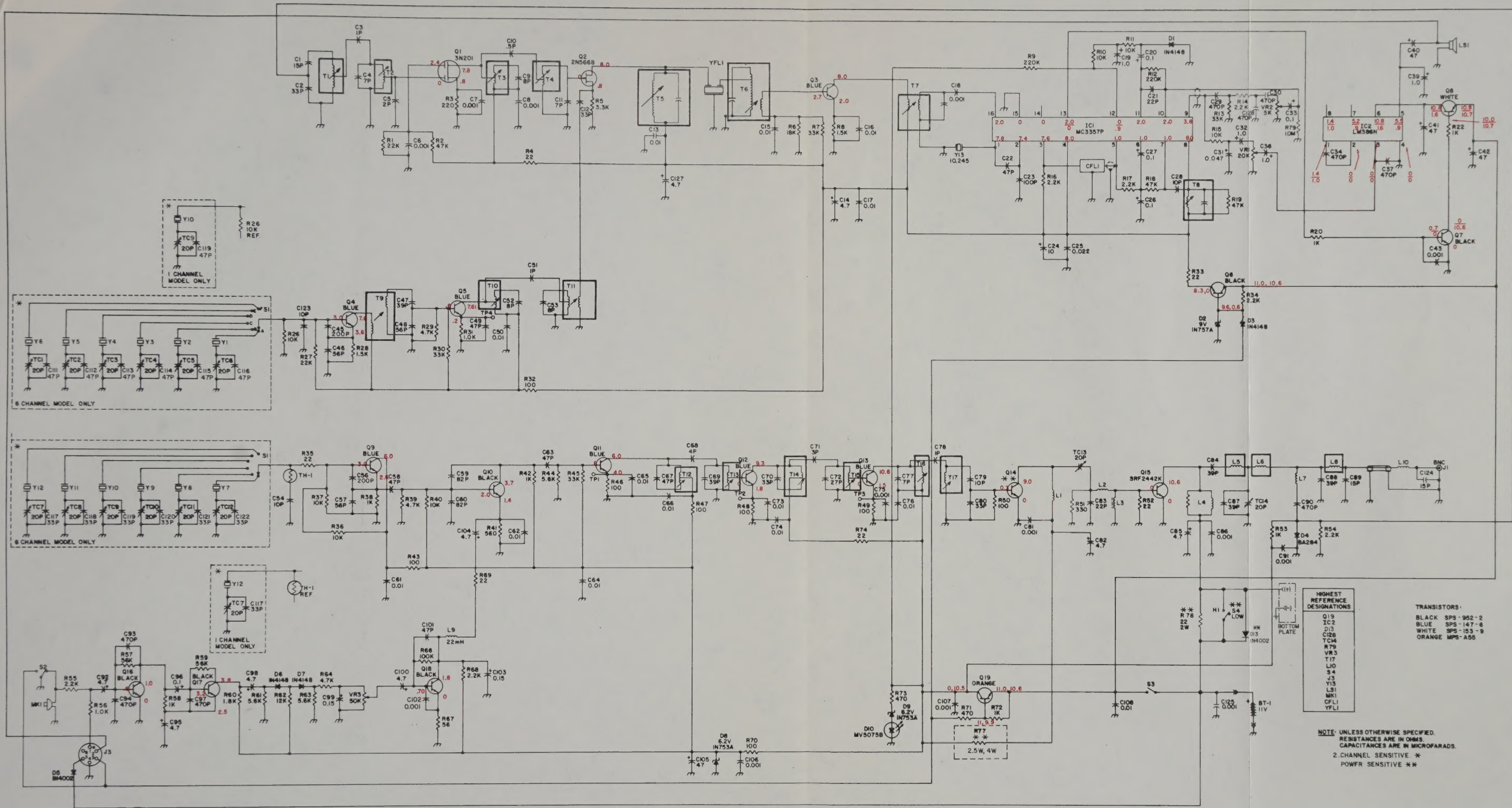




UNUSQUENCED  
 SQUENCED

RECEIVE MODE, TRANSMIT MODE

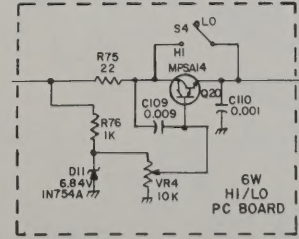




UNSCWELCHED  
SQUELCHED  
RECEIVE MODE, TRANSMIT MODE

\*\*\* POWER SENSITIVITY

	S4	D13	R77	R78	Q14
2.5 W		2N4002	220 Ω	22 Ω	MPS3866
4 W		2N4002	100 Ω	22 Ω	MPS3866
6 W	MOVED TO HI/LO BD.	NOT USED	REPLACED BY HI/LO BD.	REPLACED BY JUMPER	MRF 515



MCPHA  
SCHEMATIC  
No. 604-361, Rev. C

